



Government College University Faisalabad

Tutor Finder

By

Muhammad Ahsan Raza

2019-GCUF-073962

Sikander Nawaz

2019-GCUF-073960

Final Year Project

BACHELOR OF SCIENCE

IN

COMPUTER SCIENCE



Department of Computer Science

Government Graduate College of Science Samanabad Faisalabad

2023

CERTIFICATE

This is to certify that *Muhammad Ahsan Raza & Sikander Nawaz* bearing Registration No. **2019-GCUF-073962 & 2019-GCUF-073960** has completed the final project titled as “**Tutor Finder**” at the **Department of Computer Science, Govt. Graduate College of Science Samanabad Faisalabad**, to fulfill the partial requirement for the degree of **BS- CS**.

Supervisor

Sir Shahroz Anwar

Signature:_____

Co-Supervisors

Member 1:

Signature:_____

Member 2:

Signature:_____

Member 3:

Signature:_____

Project Coordinator

Sir Aized Amin

Head of Department

Mrs. Shahla Gul

Principal

DECLARATION

The work reported in this project was carried by us under the supervision of **Project Supervisor, *Sir Shahroz Anwar*, at Government Graduate College of Science Faisalabad.**

I hereby declare that this project and the contents of project are the product of my own research and no part has been copied from any other written or published source (accept the reference, standard mathematical or genetic models / equation / formulas / protocol etc.).

I further declare that this work has not been submitted for award of any other degree / diploma.

Name : Muhammad Ahsan Raza

Registration No : 2019-GCUF-073962

Name : Sikander Nawaz

Registration No : 2019-GCUF-073960

ACKNOWLEDGEMENT

In the name of **ALLAH ALMIGHTY**, the most merciful, the most beneficent. Who is the Lord and Owner of all the authorities and capabilities who endowed his great bless on us. He is entire source of knowledge of wisdom and who blessed us with ability to do work. We all grateful to **Prophet Muhammad (PBUH)** who gave us sprit to learn. No doubt in it because of **ALLAH ALMIGHTY** that today we are able to complete our project.

We are also thankful to our honorable Supervisor **Sir Shahroz Anwar**. Department of Computer Science, Government College University Faisalabad, for his guidance, encouragement, support and admirable help. He always encouraged us to come our project work. In fact, without his efforts and guidance, we may not be able to complete our work.

We should like to thanks all the faculty of Computer Science, GGCSF for this great support and help for proper completion of our project work.

We should feel it necessary to express our exclusive love and adoration in our parents and other family members for their support, encouragement and tremendous contribution to our project completion.

May all they live long to see our dreams being fulfilled, Ameen!

ABSTRACT

In the modern educational landscape, personalized learning and academic support have become paramount to students' success. "Tutor Finder" is a comprehensive web-based platform designed to bridge the gap between students seeking academic assistance and qualified tutors. This project aims to create an efficient and user-friendly system that empowers students to connect with tutors who can provide tailored guidance and support across various subjects and skills.

The "Tutor Finder" platform offers a user-centric experience, allowing students to search for tutors based on their specific requirements. Through a robust search and matching algorithm, students can filter tutors by subject expertise, availability, and user reviews, ensuring a seamless and personalized tutor selection process.

Table of Content

CHAPTER # 1	INTRODUCTION	2
1.1	Introduction to Project	2
1.2	Objective	2
1.3	Purpose	2
1.4	Scope of Project.....	3
1.5	Problem.....	3
1.6	Feasibility	3
1.6.1	Technical Feasibility	3
1.6.2	Operational Feasibility	4
1.6.3	Economy Feasibility.....	4
1.6.4	Information Feasibility	4
1.6.5	Motivational Feasibility.....	4
1.6.6	Legal and Ethical Feasibility.....	5
1.7	Risk Management	5
CHAPTER NO 2	BACKGROUND.....Error! Bookmark not defined.	
2.1	Area of Study.....	6
2.2	Specifications.....	6
2.3	Tools & Technologies.....	6
2.3.1	Visual Studio Code.....	7
2.3.2	HTML	7
2.3.3	CSS	8
2.3.4	Bootstrap.....	8
2.3.5	JavaScript	9
2.3.6	JQuery.....	9
2.3.7	PHP	9
2.3.8	MySQL.....	10
2.3.9	XAMPP	10
2.4	Input Types.....	10
2.5	Input Media	11
2.6	Output Design.....	11

2.7	Output Design Objectives.....	12
2.8	Error Avoidance.....	12
2.9	Error Detection	12
2.10	Data Validation	12
2.11	Error Message Design.....	12
CHAPTER NO 3 SYSTEM REQUIRMENT ANALYSIS.....		13
3.1	Steps include in system requirement.....	13
3.1.1	Develop Requirement	13
3.1.2	Write Down Requirements.....	13
3.1.3	Check Completeness	13
3.1.4	Analyze, Refine, and Decompose Requirements	14
3.1.5	Validate Requirements	14
3.1.6	Manage Requirements.....	14
3.2	Functional Requirement.....	14
3.2.1	Admin Module.....	15
3.2.2	User Module	15
3.3	Non-Functional requirement	15
3.4	Software Quality Attributes.....	17
CHAPTER NO 4 SYSTEM DESIGN		Error! Bookmark not defined.
4.1	SDLC.....	18
4.2	General Model.....	19
4.3	Data Flow Diagram (DFD).....	20
4.3.1	Data Flow Diagram for Context Level.....	20
4.3.2	Data Flow Diagram for User Level-1	21
4.3.3	Data Flow Diagram for Tutor Level-1.....	21
4.3.3	Data Flow Diagram for Admin Level-1	21
4.4	Use Case Diagrams	23
4.4.1	User Use Case Diagram	23
4.4.2	Tutor Use Case Diagram.....	24
4.4.2	Admin Use Case Diagram	25
4.5	ER Diagram.....	26
4.6	Tables	27

4.6.1	Table for Admin.....	27
4.6.2	Table for Tutor.....	28
4.6.3	Table for Course	28
4.6.4	Table for Inquiry.....	29
CHAPTER NO 5	TESTING AND IMPLEMENTATION.....	30
5.1	Introduction.....	30
5.2	Testing.....	30
5.2.1	Unit Testing	30
5.2.2	Integration Testing.....	31
5.2.3	System Testing.....	31
5.2.4	Acceptance Testing	32
5.3	Testing Methods and Comparison.....	32
5.3.1	Black Box Texting	32
5.3.2	White Box Texting	32
5.4	Testing Strategy and Test Plan.....	33
5.5	Test Cases	34
5.5.1	Data and Database Integrity Testing	34
5.5.2	Function Testing.....	35
5.5.3	User Interface Testing	36
5.5.4	Performance Testing.....	37
5.5.5	Security and Access Control Testing.....	38
5.6	Implementation	39
5.6.1	Implementation Strategy.....	39
5.6.2	Direct Implementation.....	39
5.6.3	Parallel Running	39
CHAPTER NO	USER MANUAL.....	40
6.1	Website Front View	40
6.1.1	Nav Bar	42
6.1.2	Home Page	41
6.1.3	Footer	Error! Bookmark not defined.
6.1.4	About Us Page	Error! Bookmark not defined.
6.2	User Module	43

6.2.1	View Tutor	43
6.2.2	View Tutor Details	43
6.2.3	Send Inquiry	44
6.2.4	Send Request/Inquiry	45
6.3	Tutor Module	46
6.3.1	Registration Form.....	49
6.3.2	Login/Sign In	50
6.3.3	Dashboard.....	51
6.3.4	List of Courses.....	52
6.3.5	List of Inquiries.....	52
6.3.4	Profile.....	53
6.4	Admin Module.....	54
6.4.1	Login Page	54
6.4.2	Dashboard.....	54
6.4.3	Tutor List.....	55
6.4.4	Course List.....	56
6.4.5	Inquiries.....	56
6.4.6	Setting	57